

## A B S T R A C T

In an implementation in rate gyro mode, the method comprises the steps of exciting the vibrating member by means of a combination of control signals comprising an amplitude control signal at the resonant frequency of the vibrating member or at a frequency twice the resonant frequency, a precession control signal at a frequency twice the resonant frequency, and a quadrature control signal at DC, at the resonant frequency, or at a frequency twice the resonant frequency. In free gyro mode, the method includes the steps of applying a combination of signals to common electrodes 5 and of applying said combination in alternation to main electrodes 5.1 and 5.2 and to secondary electrodes 7.1 and 7.2 interleaved between the main electrodes.